

# Memorandum

**To:** File 536

**From:** Ron Lehman, O&M Superintendent

**Date:** January 19, 2005

**Re:** Platte River Ice Thickness Measurement Along Western Sarpy Dike

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On January 19, 2005, the writer performed ice thickness measurements on the Platte River. The measurements were taken perpendicular to the river flow, near Fairview Road (Lyman Richey Sandpit Area), approximately 3.1 miles upstream of Highway 6.

A gas powered auger was used to drill the holes. The location of the holes on the table below were measured (stepped off) from the east bank of the Platte River. There was approximately 5 inches of snow cover on river ice.

Distance From East Bank (Feet)	Ice Thickness (Inches)	Depth From Top Of Ice To River Bed (Inches)
50	6	64
250	11	47
450	11	32
650	8	32
850	9.5	35
1050	13	43
1250	6	45
1450*	9	27

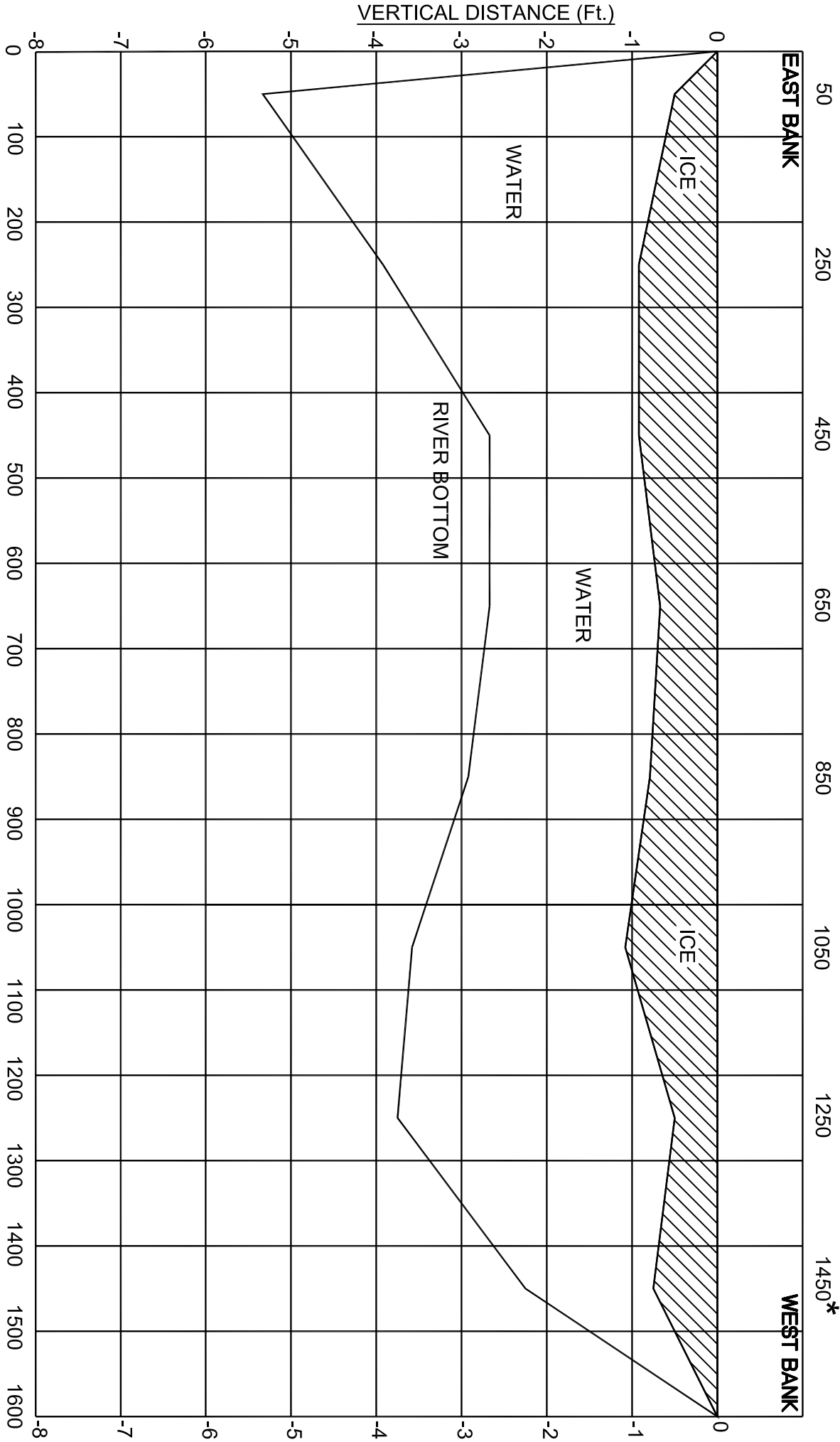
\*This hole is located about 150 feet from the West bank (Saunders County Side) of the river.

The average ice thickness is **8.1 inches**.

cc: Steve Oltmans, Marlin Petermann, Martin Cleveland, Paul Woodward, P-MRNRD  
Cindy Newsham, NEMA  
Brian Dunnigan, NDNR  
Jeff Reese, NWS  
Janelle Mavis, COE

PLATTE RIVER: Near Fairview Road  
3.1 Miles Upstream of Highway 6.

*(North of Lyman Richey Quarry)*



# Memorandum

**To:** File 536

**From:** Ron Lehman, O&M Superintendent

**Date:** January 19, 2005

**Re:** Platte River Ice Thickness Measurement Along Union Dike

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On January 19, 2005, the writer performed ice thickness measurements on the Platte River. The measurements were taken perpendicular to the river flow, near the Dike on the Werner Property, at approximately Station 155+00 (1.1 miles upstream of Highway 64).

A gas powered auger was used to drill the holes. The location of the holes on the table below were measured (stepped off) from the east bank of the Platte River. There was very little snow cover on the ice.

Distance From East Bank (Feet)	Ice Thickness (Inches)	Depth From Top Of Ice To River Bed (Inches)
36	16.5	53
136	12.5	37
286	12	24
436*	19	39
586	18	36
786	8	19
936**	10.5	31

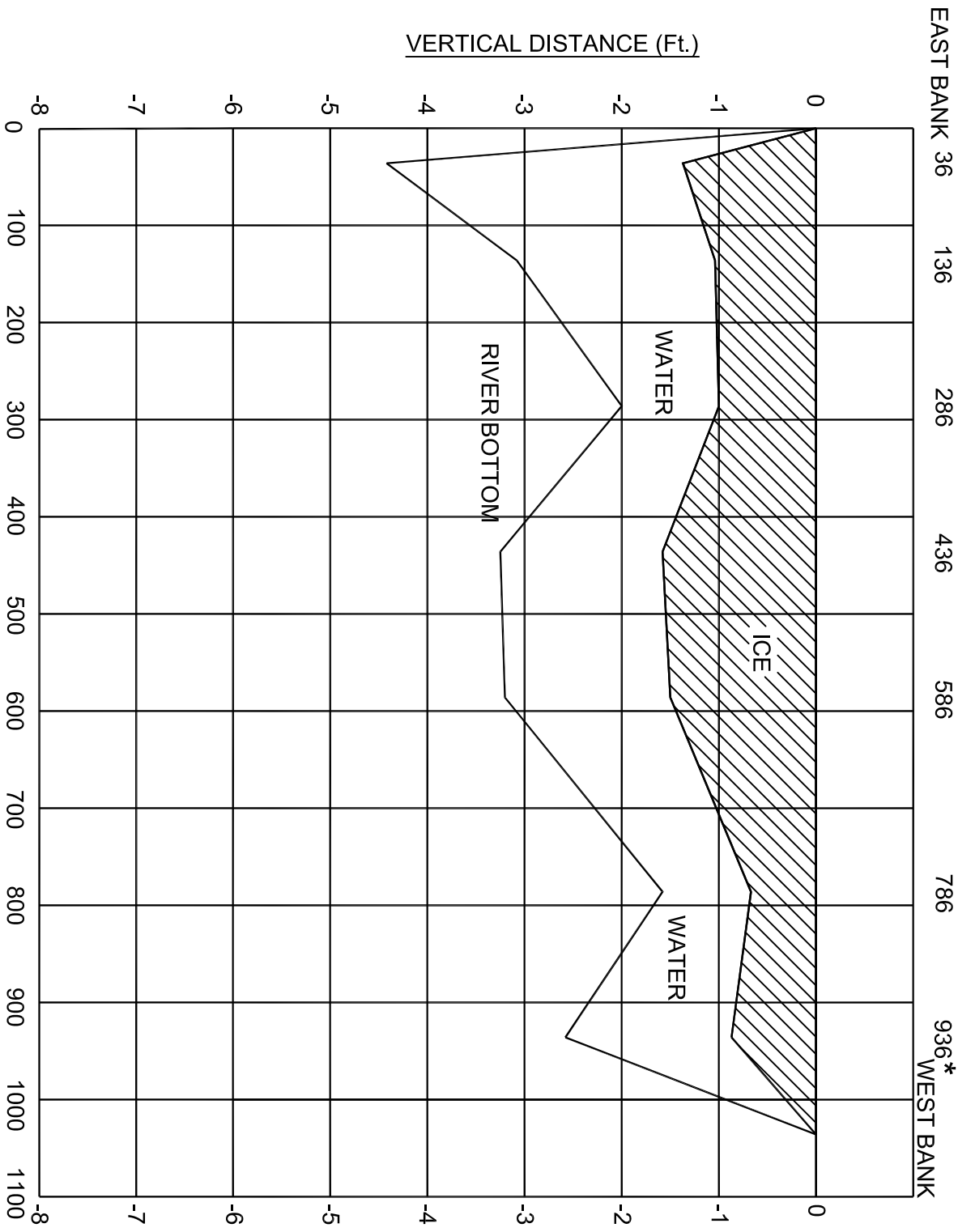
\* There were 2 layers of ice (14" and 5") separated by 4" thick layer of water.

\*\*This hole is located about 100 feet from the west bank of the river.

The average ice thickness is **13.8 inches**.

cc: Steve Oltmans, Marlin Petermann, Martin Cleveland, Paul Woodward, P-MRNRD  
Cindy Newsham, NEMA  
Brian Dunnigan, NDNR  
Jeff Reese, NWS  
Janelle Mavis, COE

PLATTE RIVER: 1.1 Miles Upstream of Hwy. 64 (STA. 155+00, UNION DIKE)



\*Hole location is approx. 100' from the west bank.  
January 19th, 2005



**WEST**  
Looking Downstream

HORIZONTAL DISTANCE (Ft.)